What is claimed is:

- A dispersant based on copolymers obtainable by polymerization of
- a) 5 to 70 wt. % of one or more monomers from the group consisting of ethylenically unsaturated monocarboxylic acids, ethylenically unsaturated carboxamides, ethylenically unsaturated
- dicarboxylic acids and anhydrides thereof, each
- with 4 to 8 C atoms, and (meth)acrylate monoesters of dialcohols with 2 to 8 C atoms,
 - b) 1 to 40 wt. % of one or more monomers from the group consisting of ethylenically unsaturated compounds with sulfonate or sulfate functional
- 15 groups,

atoms,

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- c) 10 to 80 wt. % of one or more monomers from the group consisting of ethylenically unsaturated compounds of polyethylene glycols with 1 to 300 ethylene oxide units, and terminal OH-groups or ether groups -OR', wherein R' can be an alkyl, aryl, alkaryl or aralkyl residue with 1 to 40 C
- d) 5 to 80 wt. % of one or more monomers from the group consisting of ethylenically unsaturated compounds of polyethylene glycols with 1 to 300 alkylene oxide units from alkylene groups with 3 to 4 C atoms, and terminal OH-groups or ether groups OR', wherein R' can be an alkyl, aryl, alkaryl or aralkyl residue with 1 to 40 C atoms, each based on the total weight of the copolymer, the stated amounts in wt. % totaling 100 wt. %.
- The dispersant as claimed in claim 1, characterized in that the monomer units a) are derived from one or more monomers from the group consisting of acrylic acid, methacrylic acid, itaconic acid, fumaric acid, maleic acid, and the salts of the said carboxylic acids, maleic anhydride,

acrylamide, methacrylamide, hydroxyethyl (meth)acrylate, hydroxypropyl (meth)acrylate and hydroxybutyl (meth)acrylate.

The dispersant as claimed in any of claims 1 and 2, 5 3. characterized in that the monomer units b) derived from one or more monomers from the group consisting of vinylsulfonic acid and alkali and alkaline earth metal salts thereof, styrenesulfonic acid and alkali and alkaline earth metal salts 10 thereof, methallylsulfonic acid and alkali alkaline earth metal salts thereof, pmethallyloxyphenylsulfonic acid and alkali alkaline earth metal salts thereof, and sulfonic acids of the general formula $CH_2=CR^1-CO-X-CR^2R^3-R^4-$ 15 SO₃H and alkali and alkaline earth metal salts thereof, wherein X = O or NH, and R^1 , R^2 and R^3 are the same or different and have the meaning H and C_1 to C_3 alkyl, and R^4 is C_1 to C_4 alkylene.

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- The dispersant as claimed in any of claims 1 to 3, characterized in that the monomer units c) are derived from one or more monomers from the group consisting of acrylate esters and methacrylate esters of polyethylene glycols and alkyl ethers thereof with 1 to 6 C atoms, each with 1 to 150 ethylene oxide units.
- 5. The dispersant as claimed in any of claims 1 to 4, characterized in that the monomer units d) are derived from one or more monomers from the group consisting of acrylate esters and methacrylate esters of poly-propylene glycols and polybutylene glycols and alkyl ethers thereof with 1 to 6 C atoms, each with 3 to 100 alkylene oxide units.
 - 6. The dispersant as claimed in any of claims 1 to 4, characterized in that the monomer units d) are derived from one or more monomers from the group

consisting of acrylate esters and methacrylate esters of polypropylene glycols and polybutylene glycols, which contain 3 to 35 propylene oxide or butylene oxide units, capped with 5 to 80 ethylene oxide units.

7. The dispersant as claimed in any of claims 1 to 5, characterized in that hydrophobic comonomer units e), which are derived from (meth)acrylate esters of alcohols with 1 to 15 C atoms or vinylaromatics, are also contained.

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- The dispersant as claimed in any of claims 1 to 7, 8. characterized in that with these, in formulae for 15 self-leveling, hydraulically setting mixtures, loading in the linear viscoelastic region the storage modulus G' is higher than the loss modulus loading outside the linear viscoelastic on region a tangent of the loss angle of < 80 results, 20 and on subsequent relaxation within less than 15 mins the storage modulus G' is again higher than the loss modulus G".
- 9. A process for the production of a dispersant of any of claims 1 to 8 by radical-initiated polymerization.
- 10. The use of a dispersant of any of claims 1 to 8 in the spray drying of aqueous polymer dispersions of homo- or copolymers of one or more monomers from the group consisting of vinyl esters of unbranched or branched alkylcarboxylic acids with 1 to 18 C atoms, acrylate esters or methacrylate esters of branched or unbranched alcohols with 1 to 15 C atoms, dienes, olefins, vinylaromatics and vinyl halides.
 - 11. The use of a dispersant of any of claims 1 to 8 as a cement plasticizer.

- 12. The use as claimed in claim 10, characterized in that the dispersant is used as atomization aid in the spray drying of aqueous dispersions of vinyl acetate homopolymers, copolymers of vinyl acetate with ethylene, copolymers of vinyl acetate with ethylene and one or more other vinyl esters, copolymers of vinyl acetate with ethylene and acrylate esters, copolymers of vinyl acetate with ethylene and vinyl chloride, styrene-acrylate ester copolymers and styrene-1,3-butadiene copolymers.
- 13. The use of the redispersion powders obtainable as claimed in claim 12 in construction chemical 15 products, optionally in combination with hydraulically setting binders such as cements (Portland, aluminate, trass, slag, magnesia and phosphate cement), or gypsum, lime and waterglass, for the production of construction adhesives, 20 floor. fillers, plasters, fillers, leveling compounds, grouts, jointing mortars and paints.
 - 14. The use as claimed in claim 13 in self-leveling floor fillers and flowable screeds.

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15. The use of redispersion powders containing dispersants as claimed in any of claims 1 to 8 as additives with plasticizing action.